Table 3.—Maximum free-air wind velocities (m. p. s.) for different sections of the United States based on pilot balloon observations during November 1945

| Section | Surface to 2,500 meters (m. s. l.) | | | | | Above 2,500 to 5,000 meters (m. s. l.) | | | | | Above 5,000 meters (m. s. l.) | | | | |
|---|---|---|--|--|---|---|--|--|--|--|---|--|--|--|---|
| | Maximum velocity | Direction | Altitude (m.) m.s.l. | Date | Station | Maximum velocity | Direction | Altitude (m.) m.s.l. | Date | Station | Maximum velocity | Direction | Altitude (m.) m.s.l. | Date | Station |
| Northeast 1 East-Central 2 Southeast 3 North-Central 4 Central 5 South-Central 6 Northwest 7 West-Central 8 South-West-Central 8 South-West-Central 8 | 44. 4 42. 2 40. 0 43. 6 41. 9 42. 3 50. 3 38. 1 33. 4 | SW. N. NNW. WNW. SW. WNW. W. WSW. NW. | 1, 427 2, 458 2, 500 2, 112 1, 225 1, 736 2, 500 2, 456 2, 500 | 7 15 15 4 16 4 11 7 | Columbus, Ohio Chattanooga, Tenn Atlanta, Ga Williston, N. Dak Kansas City, Mo Tulsa, Okla Glasgow, Mont Pueblo, Colo Sandberg, Calif | 48. 3 46. 5 45. 6 50. 6 53. 2 59. 6 53. 5 50. 6 60. 0 | NW. W. NW. NW. W. NW. W. | 3, 607 4, 494 4, 421 4, 053 4, 443 4, 521 4, 831 4, 177 5, 000 | 16 22 15 24 22 23 4 26 8 | Portland, Maine Nashville, Tenn. Charleston, S. C. Green Bay, Wis. Goodland, Kans. Texarkana, Ark. Missoula, Mont. Denver, Colo. El Paso, Tex. | 73. 0 80. 0 54. 6 76. 1 74. 4 100. 0 80. 0 74. 0 104. 0 | WNW. SW. W. WSW. WSW. NNW. SW. | 14, 664 9, 479 12, 201 7, 867 8, 488 14, 151 10, 645 8, 732 6, 143 | 6 3 20 9 12 13 21 11 8 | Albany, N. Y. Nashville, Tenn. Jacksonville, Fla. Marquette, Mich. Goodland, Kans. Big Spring, Tex. Pocatello, Idaho. Denver, Colo. El Paso, Tex. |

Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, and northern Ohio.
 Delaware, Maryland, Virginia, West Virginia, southern Ohio, Kentucky, eastern Tennessee, and North Carolina.
 South Carolina, Georgia, Florida, and Alabama.
 Michigan, Wisconsin, Minnesota, North Dakota, and South Dakota.
 Indiana, Illinois, Iowa, Nebraska, Kansas, and Missouri.

RIVER STAGES AND FLOODS FOR NOVEMBER 1945

By C. R. JORDAN

Precipitation during November was above normal from eastern Arkansas and Tennessee northeastward over the Ohio Valley, the Middle and North Atlantic States, and the western Lake region; the northern Great Basin; the Pacific Northwest; and Wyoming. Amounts were much above normal in a broad strip extending from Tennessee to New York and Wyoming. State averages for New York and Pennsylvania were the highest for November in over 20 years. Precipitation was light over the Great Plains and quite generally over the southern half of the Virtually no rain fell in Arizona and New country. Mexico.

Stream flow was dominantly above normal and was excessive over broad areas in the Northeastern States and in parts of California, Nevada, and Oregon. A few stations reported the greatest run-off of record for November. However, the flow was well distributed throughout the month and no serious flooding resulted. Light local flooding was reported in Indiana and eastern Texas but caused little or no damage. Small floods were reported in northern California, western Oregon, and southwestern Washington.

6 Mississippi, Arkansas, Louisiana, Oklahoma, Texas (except El Paso), and western

ennessee. ⁷ Montana, Idaho, Washington, and Oregon. ⁸ Wyoming, Colorado, Utah, northern Nevada, and northern California. ⁹ Southern California, southern Nevada, Arizona, New Mexico, and extreme west

FLOOD STAGE REPORT FOR NOVEMBER 1945

[All dates in November unless otherwise indicated]

| River and station | Flood | Above floo dat | | Crest 1 | | | |
|--|------------|-------------------|----------|----------------|----------|--|--|
| TOTAL BILL BOOMEN | stage | From- | То— | Stage | Date | | |
| Mississippi system | | | | | _ | | |
| Ohio Basin | | 1 | | | | | |
| West Fork: Edwardsport, Ind | Feet 12 | 21 | 23 | Feet 12.8 | 22 | | |
| WEST GULF OF MEXICO DRAINAGE | |] | | | | | |
| East Fork: Rockwall, Tex | 10 | 11 | 12 | 10.5 | 12 | | |
| PACIFIC SLOPE DRAINAGE | | 1 | i | | | | |
| Columbia Basin | } | | | | | | |
| Coast Fork: Saginaw, Oreg | 9 | 19 | 19 | 9.0 | 19 | | |
| Leaburg, Oreg | 12 | 27 | 28 | 13.8 | 27 | | |
| Coburg, Oreg Marys: Philomath, Oreg | 11 | 28 | 28 | 11.3 | 28 | | |
| Marys: Philomath, Oreg | 20 | 27 | 27 29 | 20. 2 18. 4 | 27 28 | | |
| Santiam: Jefferson, Oreg South Yamhill: | 13 | 21 | 29 | 10.4 | 20 | | |
| Willamina, Oreg | 8 | 26 | 27 | 11.0 | 26-27 | | |
| Whiteson, Oreg | 38 | 27 | 29 | 41.6 | 27 | | |
| Tualatin: Dilley, Öreg | 12 | 27 | 27 | 12.4 | 27 | | |
| Harrisburg, Oreg | 12 | [19 | 20 | 13. 2 | 19 | | |
| | 1 | լ 28 | 30 30 | 14. 2 12. 3 | 28 30 | | |
| Oregon City, Oreg | 12 | 30 | 30 | 12.8 | 30 | | |

¹ Provisional.